SAFETY DATA SHEET

SCOTTS OSMOCOTE PLUS TRACE ELEMENTS WATER GARDENS & AQUATIC PLANTS

Infosafe No.: LQABS
ISSUED Date : 08/06/2022
ISSUED by: Evergreen Garden Care Australia Pty. Ltd.

Section 1 - Identification

Product Identifier
SCOTTS OSMOCOTE PLUS TRACE ELEMENTS WATER GARDENS & AQUATIC PLANTS

Product Code
118950

Company Name
Evergreen Garden Care Australia Pty. Ltd.

Address
Building E, Level 2
24-32 Lexington Drive, Bella Vista
NSW AUSTRALIA

Telephone/Fax Number
Tel: (02) 8602 9000
Fax: (02) 8602 9001

Emergency Phone Number
1800 033 111

Recommended use of the chemical and restrictions on use
Fertiliser

Section 2 - Hazard(s) Identification

GHS classification of the substance/mixture
Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.
Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)
Oxidising solids: Category 3
Eye damage/irritation: Category 2A
Specific target organ toxicity (repeated exposure): Category 2
Hazardous to the Aquatic Environment - Acute Hazard: Category 3
Hazardous to the Aquatic Environment - Long-Term Hazard: Category 3

Signal Word (s)
WARNING

Hazard Statement (s)
H272 May intensify fire; oxidiser.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure by ingestion and inhalation.
H412 Harmful to aquatic life with long lasting effects.

Pictogram (s)
Flame over circle,Exclamation mark,Health hazard

Precautionary Statement – Prevention
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220 Keep away from clothing and other combustible materials.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P273 Avoid release to the environment.

Precautionary Statement – Response
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
P370+P378 In case of fire: Use water to extinguish.

Precautionary Statement – Disposal
P501 Dispose of contents/container to an approved waste disposal plant.

Section 3 - Composition and Information on Ingredients

Ingredients

Name	CAS	Proportion
Ammonium nitrate	6484- 52- 2	30- 60 %
manganese sulfate	7785- 87- 7	0. 1- 1 %
iron (II) sulfate	7720- 78- 7	0. 1- 1 %
copper sulphate	7758- 98- 7	0. 1- 1 %
disodium tetraborate, anhydrous	1330- 43- 4	<0. 3 %
Other ingredients determined not to be hazardous	Not Required	Balance

Information on Composition
Nitrogen content based on ammonium nitrate is not more than 28%.

Section 4 - First Aid Measures

Inhalation
If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

Ingestion
Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

Skin
Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

Eye
If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

First Aid Facilities
Eyewash, safety shower and normal washroom facilities.

Advice to Doctor
Treat symptomatically.

Other Information
For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

Section 5 - Firefighting Measures

Suitable Extinguishing Media
Water.

Unsuitable Extinguishing Media
High volume water jet. Dry powder. Sand. Foam.

Hazards from Combustion Products
Decomposes on heating. Thermal decomposition may produce toxic oxides of carbon, nitrogen, phosphorus and ammonia.

Specific hazards arising from the chemical
In case of fire, the product will smoulder even without the presence of external oxygen. In these conditions the product will show self sustaining decomposition. The best method to extinguish the fire is to cool the decomposition front with water.

Hazchem Code
1Z

Decomposition Temperature
Not available

Precautions in connection with Fire
Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. In case of fire the product may be violently or explosively reactive. Use water spray to disperse vapours. This product should be prevented from entering drains and watercourses.

Section 6 - Accidental Release Measures

Emergency Procedures
Increase ventilation. Evacuate all unprotected personnel. Wear sufficient respiratory protection and full protective clothing to prevent exposure. Sweep up material avoiding dust generation or dampen spilled material with water to avoid airborne dust, then transfer material to a suitable container. Wash surfaces well with soap and water. Seal all wastes in labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

Section 7 - Handling and Storage

Precautions for Safe Handling
Avoid inhalation of dust, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of dust in the work atmosphere. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for safe storage, including any incompatibilities
Store in a cool, dry, well-ventilated area, out of direct sunlight and moisture. Store in suitable, labelled containers. Keep away from heat and sources of ignition. Keep away from food, drink and animal feeding stuffs. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.
For information on the design of the storeroom reference should be made to Australian Standard AS 4326 - The storage and handling of oxidizing agents.

Storage Temperatures
Keep at temperatures between 0 °C and 40 °C.

Section 8 - Exposure Controls and Personal Protection

Occupational exposure limit values
No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below:
Iron salts, soluble (as Fe)
TWA: 1 mg/m³
Manganese, dust & compounds (as Mn)
TWA: 1 mg/m³
Disodium tetraborate, anhydrous
TWA: 1 mg/m³
Copper, dusts & mists (as Cu)
TWA: 1 mg/m³
Source: Safe Work Australia

Biological Monitoring
No biological limits allocated.

Control Banding

Not available

Engineering Controls

This substance is hazardous and should be used with a local exhaust ventilation system, drawing solid/dust away from workers' breathing zone. If the engineering controls are not sufficient to maintain concentrations of particulates below the exposure standards, suitable respiratory protection must be worn.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/particulate filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye and Face Protection

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations.

Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 (series) - Eye Protectors for Industrial Applications.

Hand Protection

Wear gloves of impervious material such as Nitrile rubber (0.26 mm)(breakthrough time >8h). Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Thermal Hazards

No further relevant information available.

Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

Section 9 - Physical and Chemical Properties

Properties	Description	Properties	Description
Form	Solid - Granules	**Appearance**	Brown granules
Colour	Brown	**Odour**	Not significant
Melting Point	Not available	**Boiling Point**	Not applicable
Decomposition Temperature	Not available	**Solubility in Water**	Soluble in water
Specific Gravity	Not available	**pH**	Not available
Vapour Pressure	Not applicable	**Relative Vapour Density (Air=1)**	Not applicable
Evaporation Rate	Not applicable	**Odour Threshold**	Not available
Viscosity	Not available	**Volatile Component**	Not available
Partition Coefficient: n-octanol/water (log value)	Not available	**Flash Point**	Decomposes on heating.
Flammability	Non flammable	**Auto-Ignition Temperature**	Not available
Explosion Limit - Upper	Not available	**Explosion Limit - Lower**	Not available
Explosion Properties	Does not present explosion hazard (Based on data of ingredients) No detonation properties (based on tests)	**Oxidising Properties**	Not available
Particle Characteristics	Not available		

Section 10 - Stability and Reactivity

Reactivity

Reacts with incompatible materials.

Chemical Stability

Stable under normal conditions of storage and handling.

Possibility of hazardous reactions

Not available

Conditions to Avoid
For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used bags should be closed well.

Incompatible Materials
Strong oxidizing agents. Acids and bases. Strong reducing agents. Flammable materials. Keep away from catalysts like derivates of hexavalent chromium and metal halides. Keep away from flammable products (fuels) like charcoal, wood, flour, soot etc.

Hazardous Decomposition Products
Thermal decomposition may produce irritating and toxic gases and vapors including oxides of carbon, nitrogen, phosphorus and ammonia.

Hazardous Polymerization
Not available

Section 11 - Toxicological Information

Toxicology Information
No toxicity data available for this material.

Ingestion
Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

Inhalation
Inhalation of dusts may irritate the respiratory system.

Skin
Skin contact may cause mechanical irritation resulting in redness and itching.

Eye
Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

Respiratory Sensitisation
Not expected to be a respiratory sensitiser.

Skin Sensitisation
Not expected to be a skin sensitiser.

Germ Cell Mutagenicity
Not considered to be a mutagenic hazard.

Carcinogenicity
Not considered to be a carcinogenic hazard.

Reproductive Toxicity
Not considered to be toxic to reproduction.

STOT - Single Exposure
Not expected to cause toxicity to a specific target organ.

STOT - Repeated Exposure
May cause damage to organs through prolonged or repeated exposure by ingestion and inhalation.

Aspiration Hazard
Not expected to be an aspiration hazard.

Section 12 - Ecological Information

Ecotoxicity
Harmful to aquatic life with long lasting effects.

Persistence and degradability
Not available

Mobility
Not available

Bioaccumulative Potential
Ammonium Nitrate (NH_4NO_3)
Log Pow: -3.1

Other Adverse Effects
Not available

Environmental Protection
Do not discharge this material into waterways, drains and sewers.

Acute Toxicity - Fish
Ammonium Nitrate
LC50 (Cyprinus carpio, semi-static): 65 - 85mg/l/48 h
Iron sulfate
LC50 (Poecilia reticulata, static): 925 mg/l/96h
LC50 (semi-static, Cyprinus carpio) 0.56 mg/96h
Copper sulfate
LC50 (Oncorhynchus mykiss): 0.1 mg/l/96h
Sodium borate
LC50 (Limanda limanda): 340 mg/l/96h

Acute Toxicity - Daphnia
Iron sulfate
EC50 (Daphnia magna): 152 mg/l/48h
EC50 (Daphnia magna, Static): 6.15 - 9.26 mg/l/48h
Copper sulfate
EC50 (Daphnia magna): 0.024 mg/l/48h
Sodium borate
EC50 (Daphnia magna): 1085 - 1402 mg/l/48h

Acute Toxicity - Algae
Sodium borate
158 mg/l/96h (Desmodesmus subspicatus)

Hazardous to the Ozone Layer
This product is not expected to deplete the ozone layer.

Section 13 - Disposal Considerations

Disposal Considerations
Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. To minimise personal exposure to the chemical, refer to Section 8 —Exposure controls and personal protection.

Section 14 - Transport Information

Transport Information
This material is classified as Dangerous Goods Class 9 Miscellaneous Dangerous Goods
Class 9: Miscellaneous substances Dangerous Goods are incompatible in a placard load with any of the following:
Class 1: Explosives (when the class 9 substance is a fire risk substance) Division 5.1: Oxidising substances (when the class 9 substance is a fire risk substance) and
Division 5.2: Organic peroxides (when the class 9 substance is a fire risk substance)
UN No: 2071
Special Provisions: 193
This entry may only be used for ammonium nitrate based compound fertilizers. They shall be classified in accordance with the procedure as set out in the Manual of Tests and Criteria, Part III, Section 39. Fertilizers meeting the criteria for this UN number are only subject to these Regulations when transported by air or sea.
Marine Transport (IMO/IMDG):
Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.
Class/Division: 9
UN No: 2071
Proper Shipping Name: AMMONIUM NITRATE BASED FERTILIZER
Packing Group: III
EMS : F-H, S-Q
Special Provisions: 193
Air Transport (ICAO/IATA):
Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.
Class/Division: 9
UN No: 2071

Proper Shipping Name: Ammonium nitrate based fertilizer
Packing Group: III
Packaging Instructions (passenger & cargo): 958
Packaging Instructions (cargo only): 958
Hazard Label: Miscellaneous
Special Provisions: A90

ADG U.N. Number
2071

ADG Proper Shipping Name
AMMONIUM NITRATE BASED FERTILIZER

ADG Transport Hazard Class
9

ADG Packing Group
III

Hazchem Code
1Z

IERG Number
50

Special Precautions for User
Not available

IMDG Marine pollutant
No

Transport in Bulk
Not available

Section 15 - Regulatory Information

Regulatory Information
Classified as Hazardous according to the Globally Harmonised System of classification and labelling of chemicals (GHS) including Work, Health and Safety regulations, Australia.

Poisons Schedule
Not Scheduled

Montreal Protocol
Not listed

Stockholm Convention
Not listed

Rotterdam Convention
Not listed

International Convention for the Prevention of Pollution from Ships (MARPOL)
Not available

Agricultural and Veterinary Chemicals Act 1994
Not available

Basel Convention
Not available

Section 16 - Any Other Relevant Information

Date of Preparation
SDS Reviewed: June 2022
Supersedes: August 2020

Version Number
Version 2.0

Literature References
Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
Standard for the Uniform Scheduling of Medicines and Poisons.
Australian Code for the Transport of Dangerous Goods by Road & Rail.

Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Code of Practice for Supply Diversion into Illicit Drug Manufacture.
National Code of Practice for Chemicals of Security Concern.
Agricultural Compounds and Veterinary Chemicals Act.
International Agency for Research on Cancer (IARC) Monographs.
Montreal Protocol on Substances that Deplete the Ozone Layer.
Stockholm Convention on Persistent Organic Pollutants (POPs).
Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.
Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal.
International Air Transport Association (IATA) Dangerous Goods Regulations.
International Maritime Dangerous Goods (IMDG) Code.
Workplace exposure standards for airborne contaminants.
Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).
Globally Harmonised System of Classification and Labelling of Chemicals (7th revised edition).
Code of Practice: Managing Noise and Preventing Hearing Loss at Work.

END OF SDS

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